

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1-10 (canceled)

11. (Currently amended) A dynamic weighing system, comprising a combination of at least one speed measurement sensor and a sensor having an electromagnetic loop designed to produce a signal in response to a pressure applied to its surface, the sensor having an electromagnetic loop comprising:

an electromagnetic loop designed to radiate an electromagnetic field; and
a conducting cover forming an interface between the surface on which the pressure is intended to be applied and the electromagnetic loop, the interface stopping the electromagnetic field radiated by the loop,

wherein the electromagnetic loop is connected to a detection circuit and forms a resonant circuit tuned to the input capacitance of the detection circuit, such that motion of a vehicle over the conducting cover causes the generation by the resonant circuit of an electrical signal having a peak height that is a function of the speed and weight parameters of the vehicle, and the sensor is calibrated so as to determine the weight of a vehicle from the measured peak height of the electrical signal generated by the resonant circuit and from the speed of the vehicle measured using the at least one speed measurement sensor.

12. (Previously Presented) The system as claimed in claim 11, wherein the loop lies approximately in a plane, this plane being approximately orthogonal to the direction in which the pressure is applied.

13. (Previously Presented) The system as claimed in claim 11, wherein the cover forms part of an envelope, the envelope being configured so as to entirely confine the electromagnetic

field radiated by the loop.

14. (Previously Presented) The system as claimed in claim 11, wherein the cover is configured so as to deform when pressure is applied to the surface of the sensor, the deformation of the cover being elastic.

15. (Previously Presented) The system as claimed in claim 11, wherein the cover is configured so as to move elastically when pressure is applied to the surface of the sensor.

16. (Previously Presented) The system as claimed in the claim 15, wherein the displacement of the cover includes a translation toward the loop.

17. (Previously Presented) The system as claimed in the claim 16, wherein includes an elastic material placed between the cover and the loop, said elastic material being compressed in order to allow displacements of the cover.

18. (Previously Presented) The system as claimed in the claim 17, wherein the elastic material is formed by a resin.

19. (Previously Presented) The system as claimed in claim 11, wherein the cover is made of a nonferromagnetic material.

20. (Previously Presented) The system as claimed in the claim 19, wherein the material forming the cover is aluminum, copper or one of their alloys.